

**REFINING OF SEGMENTAL BOUNDARIES IN SPEECH
WAVEFORMS USING CONTEXTUAL-DEPENDENT MODELS**

ABSTRACT OF THE DISCLOSURE

A method and apparatus are provided for refining segmental boundaries in speech waveforms. Contextual acoustic feature similarities are used as a basis for clustering adjacent phoneme speech units, where each adjacent pair phoneme speech units include a segmental boundary. A refining model is trained for each cluster and used to refine boundaries of contextual phoneme speech units forming the clusters.